

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

FIRST NAMED INVENTOR APPLICATION NO. FILING DATE ATTORNEY DOCKET NO. 09/136,483 08/19/98 KUMAR S N19.12-0016 **EXAMINER** IM62/0908 PETER S DARDI MARCHESCHI, M WESTMAN CHAMPLIN & KELLY PAPER NUMBER **ART UNIT** SUITE 1600 INTERNATIONAL CENTRE 900 SECOND AVENUE SOUTH 1755 MINNEAPOLIS MN 55402-3319 DATE MAILED: 09/08/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 09/136,483

Applicant(s)

Kumar et al.

Examiner

Michael Marcheschi

Group Art Unit 1755



Responsive to communication(s) filed on Jun 21, 1999	·
☑ This action is FINAL .	
Since this application is in condition for allowance except for form in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D.	
A shortened statutory period for response to this action is set to expiss longer, from the mailing date of this communication. Failure to resupplication to become abandoned. (35 U.S.C. § 133). Extensions of CFR 1.136(a).	pond within the period for response will cause the
Disposition of Claims	
	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
☐ Claim(s)	
X Claim(s) 1-3 and 5-22	
Claim(s)	
☐ Claims	
Application Papers See the attached Notice of Draftsperson's Patent Drawing Rev The drawing(s) filed on is/are objected to The proposed drawing correction, filed on Jun 21, 1999 The specification is objected to by the Examiner. The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 Acknowledgement is made of a claim for foreign priority under All Some* None of the CERTIFIED copies of the	by the Examiner. is Kapproved Lisapproved. 35 U.S.C. § 119(a)-(d).
☐ received.	·
☐ received in Application No. (Series Code/Serial Number) ☐ received in this national stage application from the Interr *Certified copies not received:	national Bureau (PCT Rule 17.2(a)).
*Certified copies not received: Acknowledgement is made of a claim for domestic priority unc	der 35 U.S.C. § 119(e).
Attachment(s) Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449, Paper No(s). Interview Summary, PTO-413 Notice of Draftsperson's Patent Drawing Review, PTO-948 Notice of Informal Patent Application, PTO-152	·
SEE OFFICE ACTION ON THE FO	OLLOWING PAGES

Application/Control Number: 09/136,483

Art Unit: 1755

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

The disclosure is objected to because of the following informalities:

Throughout the specification applicants define application serial numbers and these should be updated to include the patent numbers, if appropriate,.

Appropriate correction is required.

Claim 5 is rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 5 is indefinite as to the phrase 'effectively no' since the examiner is unclear as to what this encompasses. This phrase does not define a clear limitation, thus rendering the scope of the claims unclear. This phrase should be canceled.

Claims 1-3, 5-8 and 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over either (1) Sugoh et al., (2) Ota et al., (3) Arai et al, (4) Moser or (5) Helble et al. (708) for the same reasons set forth in the previous office action which are incorporated herein by reference.

(II) Claims 1-3, 5-16 and 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over either (1) Sakatani et al. alone or in view of Ueda et al., (3) Atsugi et al. alone or in view of Ueda et al., (5) Zipperian alone or in

Application/Control Number: 09/136,483

Art Unit: 1755

view of Ueda et al., (6) Rostoker (130) alone or in view of Ueda et al., (7) Rostoker et al. (194) alone or in view of Ueda et al. or (8) Neville et al. alone or in view of Ueda et al. for the same reasons set forth in the previous office action which are incorporated herein by reference.

Claims 19-22 are added in these rejections because the prior art teaches size distributions which encompass the claimed size distributions.

- (III) Claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimo for the same reasons set forth in the previous office action which are incorporated herein by reference.
- (IV) Claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over either (1) Sugoh et al., (2) Hardy et al., (3) Ota et al., (4) Arai et al, (5) Moser, (6) Helble et al. (708), (7) Sakatani et al., (8) Ueda et al., (9) Atsugi et al., (10) Rosenblum, (11) Zipperian, (12) Rostoker (130), (13) Rostoker et al. (194), (14) Wang or (15) Neville et al. as applied to claim 1 above, and further in view of Shimo for the same reasons set forth in the previous office action which are incorporated herein by reference.
- (V) Claims 1-3, 5-16 and 19-22 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3, 5-9 and 11-16 of copending Application No. 08/961,735 for the same reasons set forth in the previous office action which are incorporated herein by reference.

Claims 19-22 are added in these rejections because the prior art teaches size distributions which encompass the claimed size distributions.

Application/Control Number: 09/136,483

Art Unit: 1755

Applicant's arguments filed 6/21/99 have been fully considered but they are not persuasive.

Applicants argue that Sugoh et al. teach the production of silica particles and not alumina particles. The examiner fails to see this argument because it is specifically stated in column 2, line 51 of Sugoh et al. that alumina can be produced. Applicants also argue that Arai et al. and Moser do not teach the production of alumina particles. The examiner fails to see this argument because it is specifically implied in the abstract and column 2, line 51 of Arai et al. that alumina can be produced and Moser specifically states in column 5, lines 23-25, that alumina can be produced. With respect to the particle size distribution, applicants argue that none of the references ((1) Sugoh et al., (2) Ota et al., (3) Arai et al, (4) Moser or (5) Helble et al. (708)) disclose the claimed size limitations. The examiner fails to see this argument because all the references disclose particles sizes which encompass the claimed range and it is well known that overlapping ranges are obvious (the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, see In re Malagari, 182 U.S.P.Q. 549). In addition, applicants also argue that the references do not define the "tail" limitation. Again, the sizes overlap the claimed sizes and therefore a prima facie case of obviousness has been established. Applicants also apparently argue that the figures and/or the examples of some of the references do not disclose the claimed invention. Although this might be true, "A reference is good not only

Application/Control Number: 09/136,483 Page 5

Art Unit: 1755

for what it teaches but also for what one of ordinary skill might reasonably infer from the teachings. In re Opprecht 12 USPQ 2d 1235, 1236 (CAFC 1989); In re Bode USPQ 12; In re Lamberti 192 USPQ 278; In re Bozek 163 USPQ 545, 549 (CCPA 1969); In re Van Mater 144 USPQ 421; In re Jacoby 135 USPQ 317; In re LeGrice 133 USPQ 365; In re Preda 159 USPQ 342 (CCPA 1968)". In addition, "A reference can be used for all it realistically teaches and is not limited to the disclosure in its preferred embodiments" See In re Van Marter, 144 USPQ 421. Finally, applicants appear to argue how the particles are produced, but this argument is irrelevant because the claims are only directed to the particles.

Applicants argue that Sakatani et al., Ueda et al., Atsugi et al., Rosenblum, Zipperian, Rostoker (130), Neville et al. and Rostoker et al. (194) fail to disclose the claimed size distribution. The examiner fails to see this argument because all the references disclose particles sizes which encompass the claimed range and it is well known that overlapping ranges are obvious (the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, see *In re Malagari*, 182 U.S.P.Q. 549). In addition, applicants also argue that the references do not define the "tail" limitation. Again, the sizes overlap the claimed sizes and therefore a prima facie case of obviousness has been established. Applicants also apparently argue that the figures and/or the examples of some of the references do not disclose the claimed invention. Although this might be true, "A reference is good not only for what it

Application/Control Number: 09/136,483

Art Unit: 1755

teaches but also for what one of ordinary skill might reasonably infer from the teachings.

In re Opprecht 12 USPQ 2d 1235, 1236 (CAFC 1989); In re Bode USPQ 12; In re Lamberti
192 USPQ 278; In re Bozek 163 USPQ 545, 549 (CCPA 1969); In re Van Mater 144 USPQ
421; In re Jacoby 135 USPQ 317; In re LeGrice 133 USPQ 365; In re Preda 159 USPQ 342
(CCPA 1968)". In addition, "A reference can be used for all it realistically teaches and is
not limited to the disclosure in its preferred embodiments" See In re Van Marter, 144 USPQ
421. Finally, applicants appear to argue how the particles are produced, but this argument is
irrelevant because the claims are only directed to the particles.

Applicants also argue that the particle size distribution of Rostoker et al. (194) is a gaussian distribution with a corresponding large tail. Applicants have not provided any evidence to support this. The conventional definition of a gaussian distribution is that the distribution curve has the shape of a normal probability curve (bell curve). This definition does not set forth that the distribution has a large tail. To support applicants contention, a reference directed to Siegel et al. is supplied. The examiner fails to see the relevance of this article and how it can be used to support applicants argument.

Since applicants have not provided any evidence (data) showing that the claimed size range is superior and provides unexpected results when compared to the size ranges disclosed by the prior art, no patentable distinction is seen to exist.

Application/Control Number: 09/136,483

Art Unit: 1755

Applicants apparently argue that Shimo does not teach the instantly claimed process because the reference uses a laser pulse. The examiner fails to see applicants argument because the reference process entails laser pyrolysis of a mixture of an organometallic precursor (aluminum) and an oxygen containing compound. Since the claimed process is directed to laser pyrolysis of a molecular stream (i.e. alumina precursor) and an oxygen containing compound (encompasses both an oxidizing agent and infrared absorber), it can be seen that the two processes are the same or reasonably similar. Since applicants have not provided any distinguishing factor between the two processes, no distinction is sere to exist. Applicants also argue that the reference does not teach the production of alumina particles. The examiner fails to see this argument because it is specifically stated in column 5, line 10-20 that an aluminum reactant can be used (i.e. thus inherently producing alumina). Although this is not exemplified, "A reference is good not only for what it teaches but also for what one of ordinary skill might reasonably infer from the teachings. In re Opprecht 12 USPQ 2d 1235, 1236 (CAFC 1989); In re Bode USPQ 12; In re Lamberti 192 USPQ 278; In re Bozek 163 USPQ 545, 549 (CCPA 1969); In re Van Mater 144 USPQ 421; In re Jacoby 135 USPQ 317; In re LeGrice 133 USPQ 365; In re Preda 159 USPQ 342 (CCPA 1968)". In addition, "A reference can be used for all it realistically teaches and is not limited to the disclosure in its preferred embodiments" See In re Van Marter, 144 USPQ 421.

With respect to the combination rejection of claims 17 and 18, applicants fail to argue the reasons for combining as set forth in the previous office action. The examiner acknowledges that

Application/Control Number: 09/136,483

Art Unit: 1755

all of the references (excluding Shimo) fail to teach laser pyrolysis, hence the reasons for the combination. One cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

In view of the teachings as set forth above, it is still the examiners position that the references reasonably teach or suggest the limitations of the rejected claims.

Art Unit: 1755

Evidence of unexpected results must be clear and convincing. *In re Lohr* 137 USPQ 548. Evidence of unexpected results must be commensurate in scope with the subject matter claimed. *In re Linder* 173 USPQ 356.

The drawing corrections filed 6/21/99 are approved by the examiner.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Marcheschi whose telephone number is (703) 308-3815. The examiner can be normally be reached on Monday through Thursday between the hours of 8:30-6:00 and every other Friday between the hours of 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiners supervisor, Mark L. Bell, can be reached at (703) 308-3823.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661.

Michael Marcheschi

Art unit 1755

9/7/99

MICTIAEL MARCHESCHI PRIMARY EXAMINER